



HORIZONTAL THERMAL SOLAR COLLECTORS

D8c serie

The Syrius D8c series of solar thermal collectors completes the core range of products Syrius Solar Industry product range. They are as well adapted for a use in forced circulation, as for the self-draining systems. They benefit from a new generation of absorbing surface to limit the overheating.

Some of the advantages are: reduction of liquid losses due to evaporation from the stagnant glycol circuit, increase of the glycol and collector lifetime due to the reduction of stress on all parts.

Based on the Mirotherm® technology which has been proven for more than 15 years on the world market.

Description

The sensors are designed for a wide range of applications and operating conditions conditions of use:

- Landscape mode use for : ISWH, SECS, collective use
- High insulation of 40 mm of rock wool: use in Europe
- High resistance to snow and wind loads (zone 5) : use at high altitudes
- Hydraulic circuit allowing the Functioning in forced circulation

Collectors guarantee 10 years

Certifications

SolarKeymark Sensor Certification
in progress

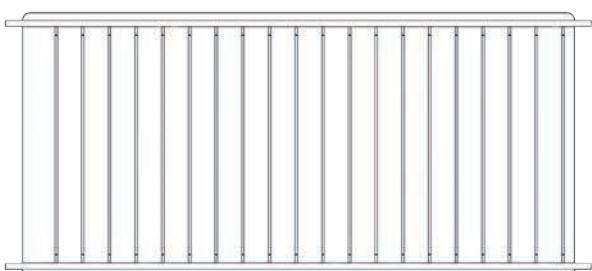
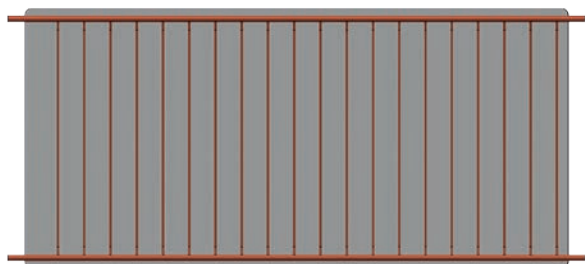
**provisional data pending laboratory test results*

Made in France



Features

Model	H2000 D8c	H2500 D8c
Absorber type	Selective aluminum laser welded on Cu tubes	
Absorber coating	Alanod Mirotherm Control highly selective	
Absorptance / Emittance	96% / 4% +/- 1%	
Collector circuit	Harp grid (20 tubes Cu. Ø 8 + 2 collectors tube Cu. Ø 22)	Harp grid (20 tubes Cu. Ø 8 + 2 collectors tube Cu. Ø 22)
Collector connection	4 outlets Ø 22 for compression fitting	
Dimensions (mm)	1015 x 2033 x 98	1245 x 2033 x 98
Gross area (m²)	2.06	2.53
Net area (m²)	1.83	2.28
Net weight (kg)	31	37
Liquid content (liters)	2.00	2.19
Nominal flow (l/h)	150	180
Nominal pressure loss *	0,8 mbar (low flow rate: 0.4 mbar, water/propylene glycol mixture/20°C)	
Covering	Tempered structured glass with low iron content 3.2 mm (Solar Glass ESG)	
Transmission of covering	91 %	
Impact resistance of covering	Meets the requirements of the EN12975-2 standard	
Insulation	40 mm rock wool	
Frame collector	Anodised aluminium cover	
Angle of inclination	10° to 90°	
Recommended heat transfer fluid in Europe	Antifreeze mix based on propylene-glycol	
Guarantee	10 years	
Efficiency $\eta_{0,a}$ absorber area *	78.8 %	76.4 %
Heat loss coefficient a1 *	a1 : 3.82 W/(m².K)	a1 : 3.99 W/(m².K)
Heat loss coefficient a2 *	a2 : 0.016 W²/(m².K²)	a2 : 0.014 W²/(m².K²)
Max. stagnation temperature	140°C	
Max. operation pressure / admissible (bar)	10 / 7	



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